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- GRAY SCALE DOCUMENTS

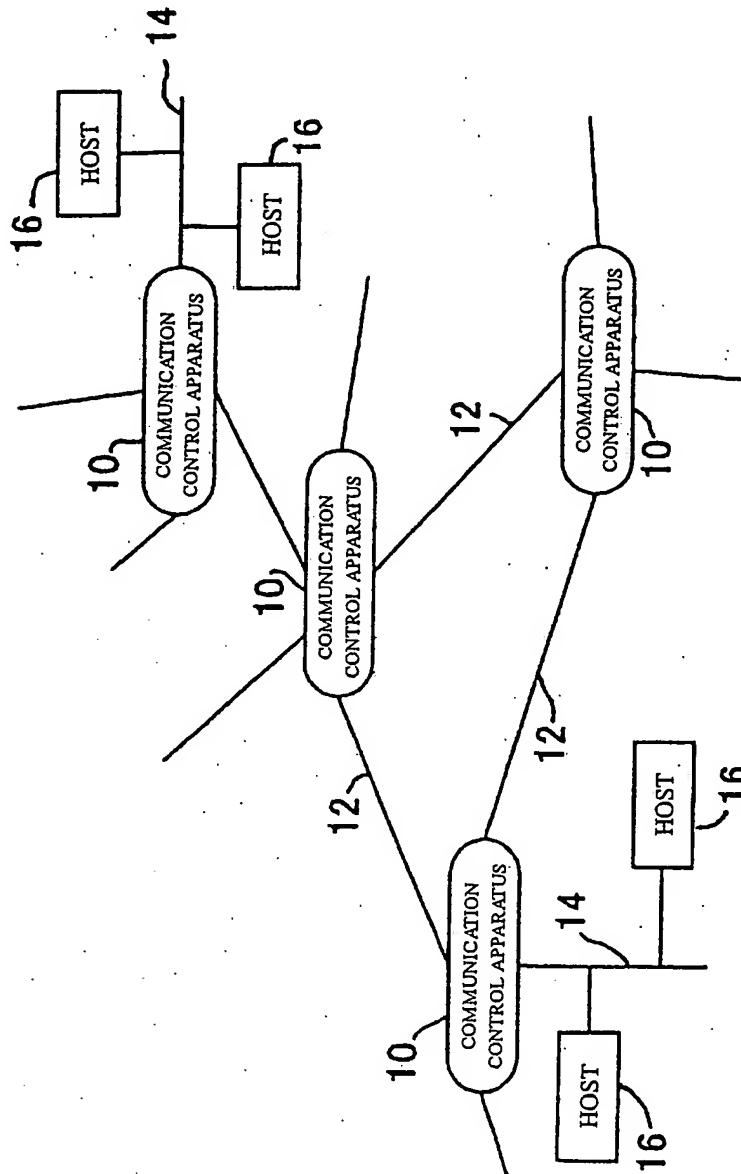
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[Document type] Drawing

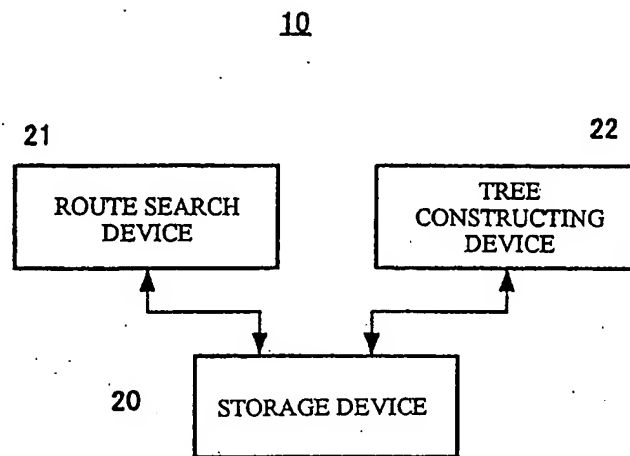
[Figure 1]

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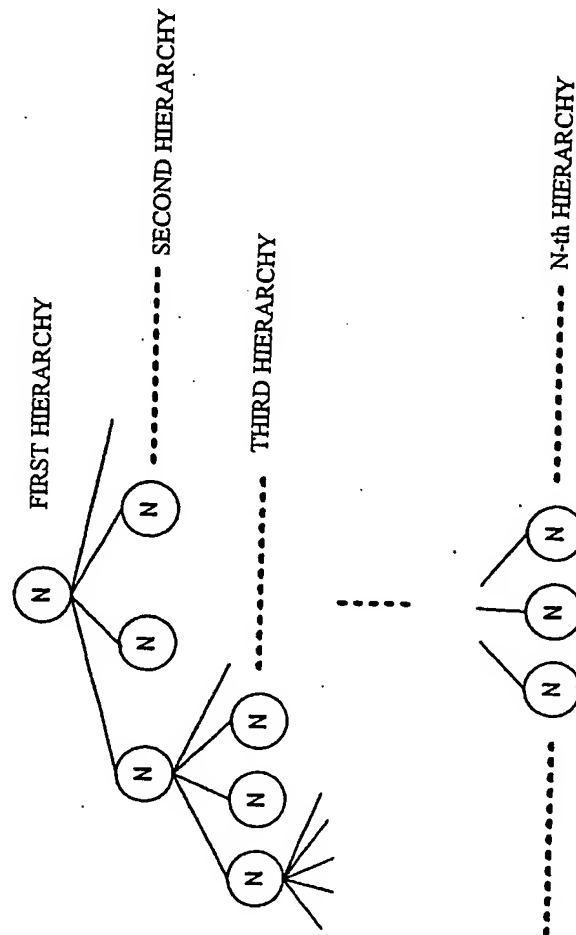
[Figure 2]

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[Figure 3]

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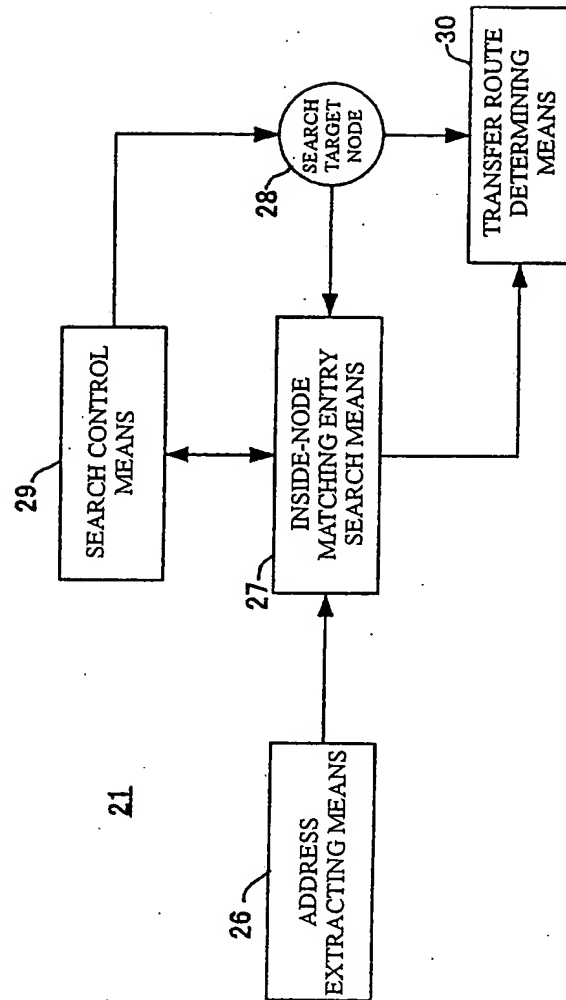


[Figure 4]

SORT KEY	MASK LENGTH
01010100	5
01011000	4
01110000	4

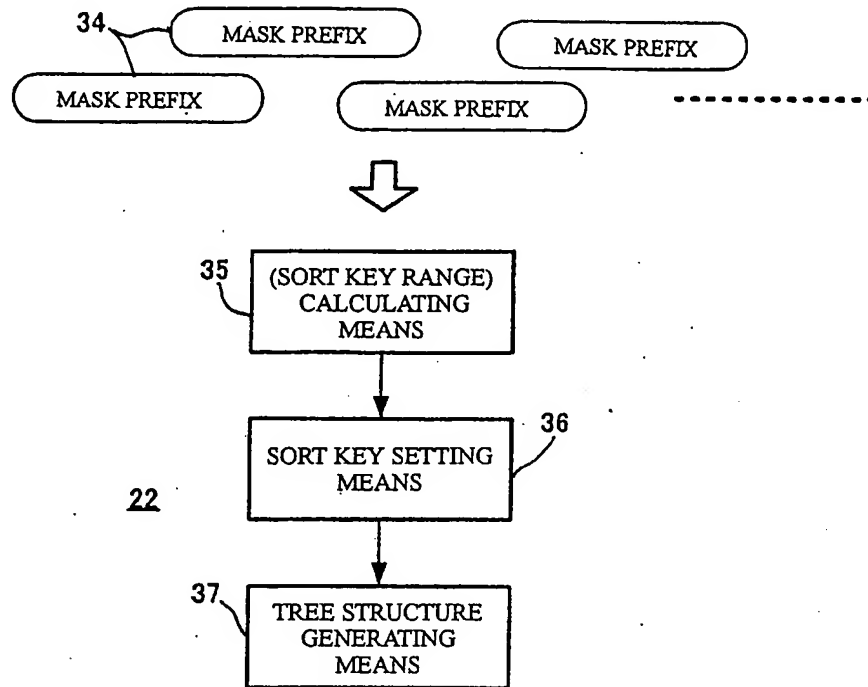
[Figure 5]

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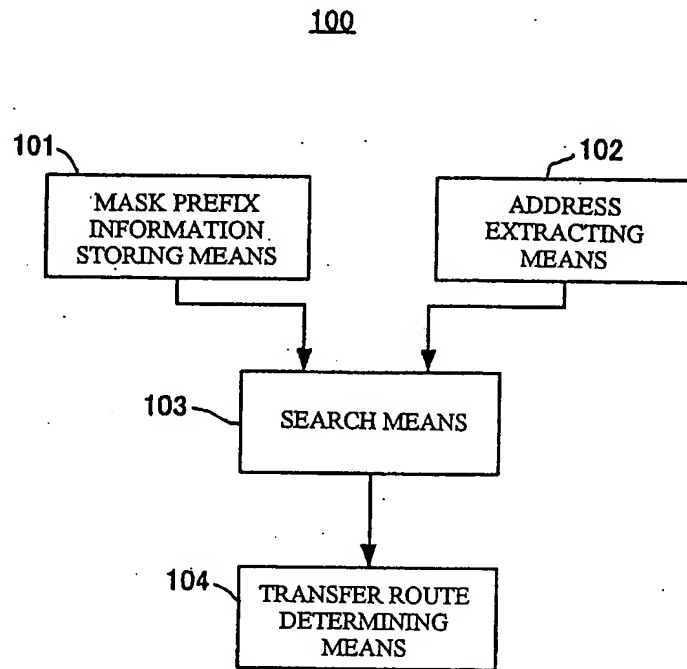
[Figure 6]

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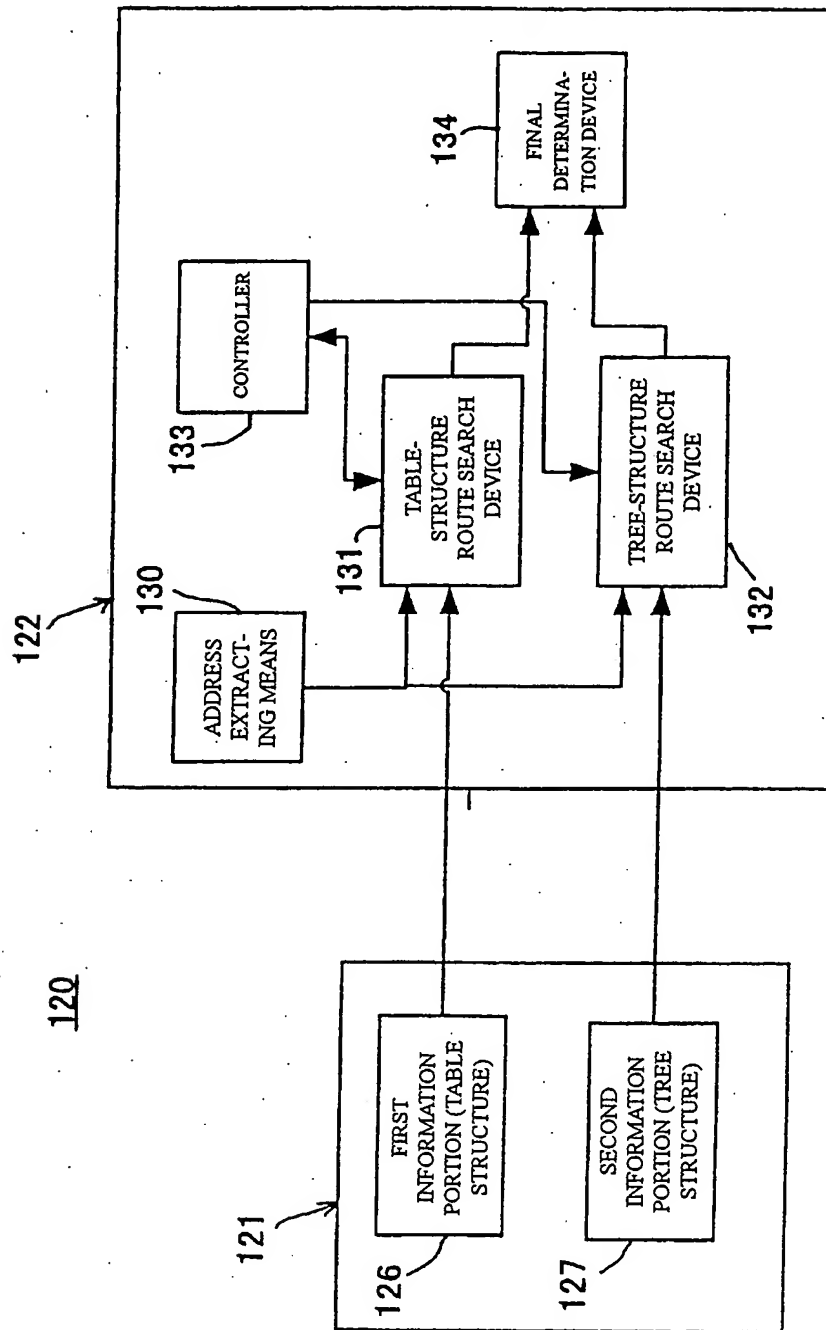
[Figure 7]

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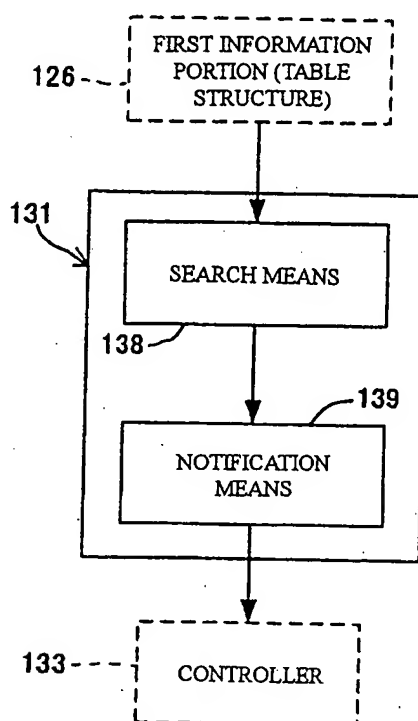
[Figure 8]

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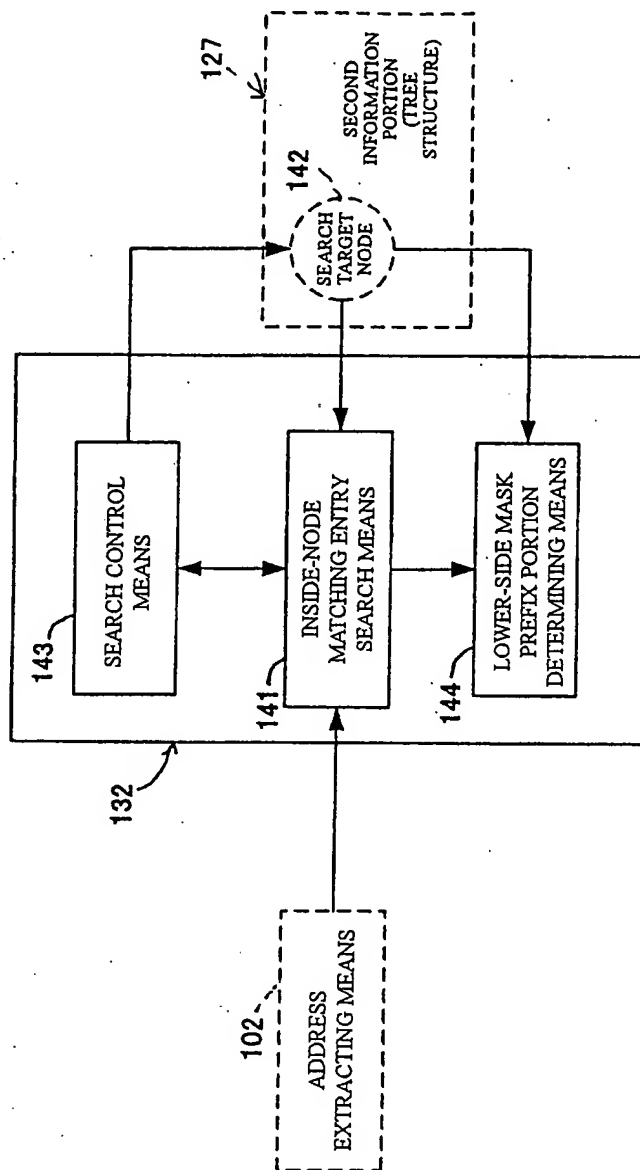
[Figure 9]

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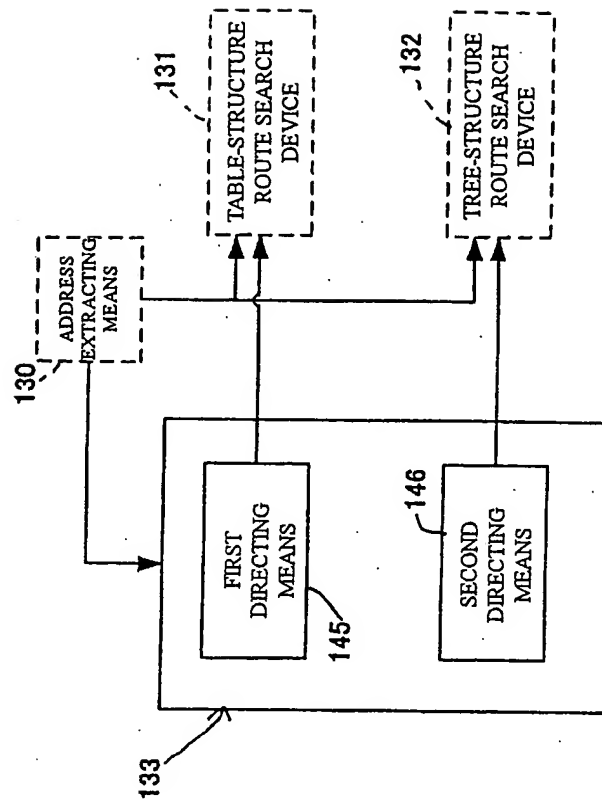
[Figure 10]

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[Figure 11]

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[Figure 12]

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(a)

NUMBER	MASK PREFIX	MASK LENGTH
1	00	2
2	00001	5
3	0001	4
4	00010	5
5	000110	6
6	001	3
7	01	2
8	011	3
9	1100	4

(b)

MASK PREFIX WITH 3 OR LESS BITS	MASK LENGTH
00	2
001	3
01	2
011	3

(c)

MASK PREFIX WITH 4 OR MORE BITS	MASK LENGTH
00001	5
0001	4
00010	5
000110	6
1100	4

[Figure 13]

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ENTRY NUMBER	SORT KEY	POINTER TO TREE STRUCTURE	SHORT MASK PREFIX CANDIDATE
1	000	Tree-A	00/2 CANDIDATE
2	001	None	001/3 DETERMINED
3	010	None	01/2 DETERMINED
4	011	None	011/3 DETERMINED
5	100	None	None NO APPROPRIATE PREFIX
6	101	None	None NO APPROPRIATE PREFIX
7	110	Tree-B	None NO APPROPRIATE PREFIX
8	111	None	None NO APPROPRIATE PREFIX

[Figure 14]

(a)

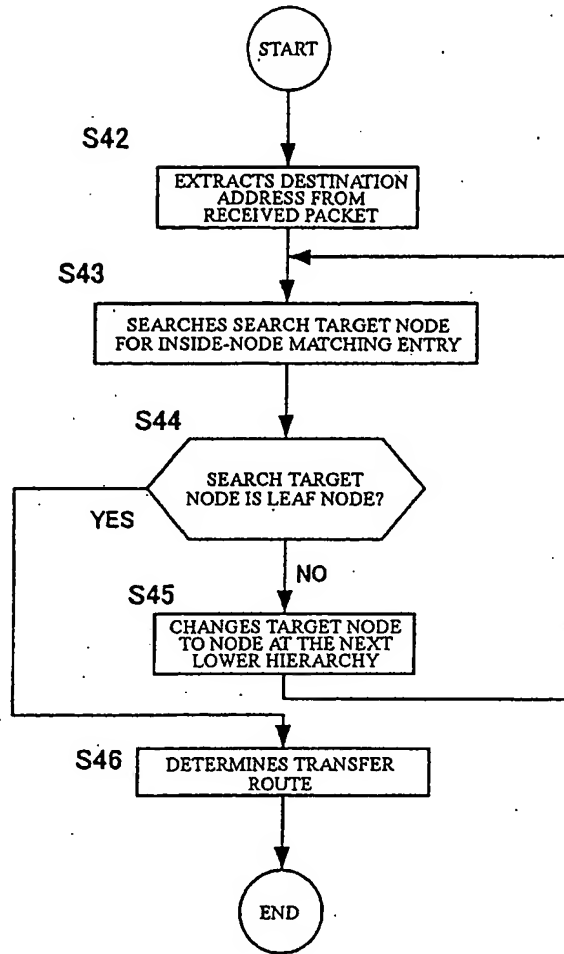
MASK PREFIX	MASK LENGTH
00001	5
0001	4
00010	5
000110	6

(b)

MASK PREFIX	MASK LENGTH
1100	4

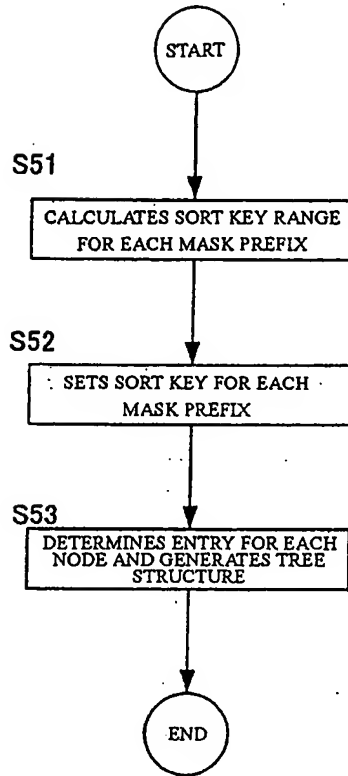
[Figure 15]

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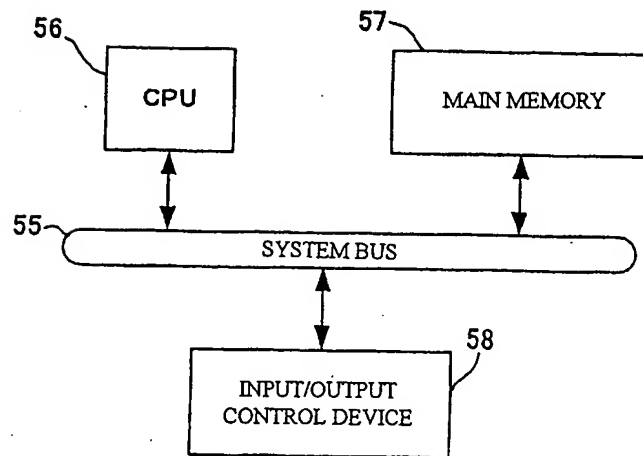


[Figure 16]

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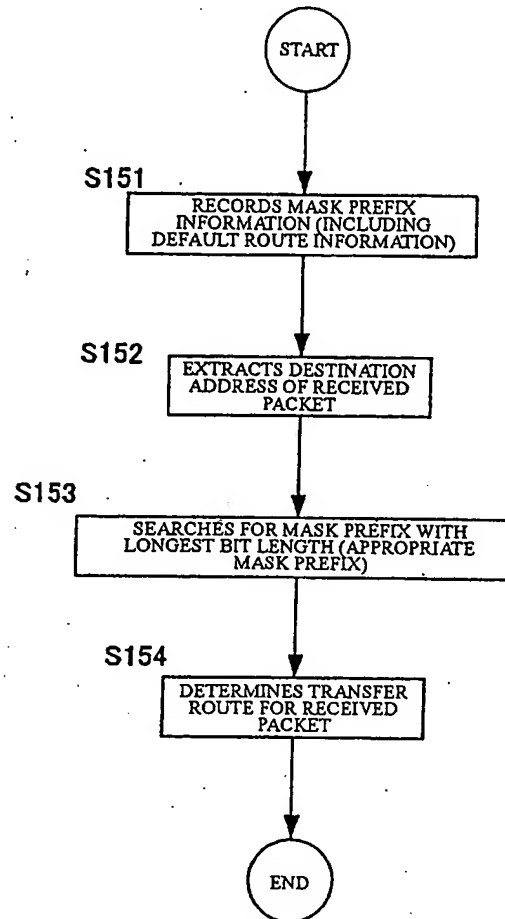


[Figure 17]



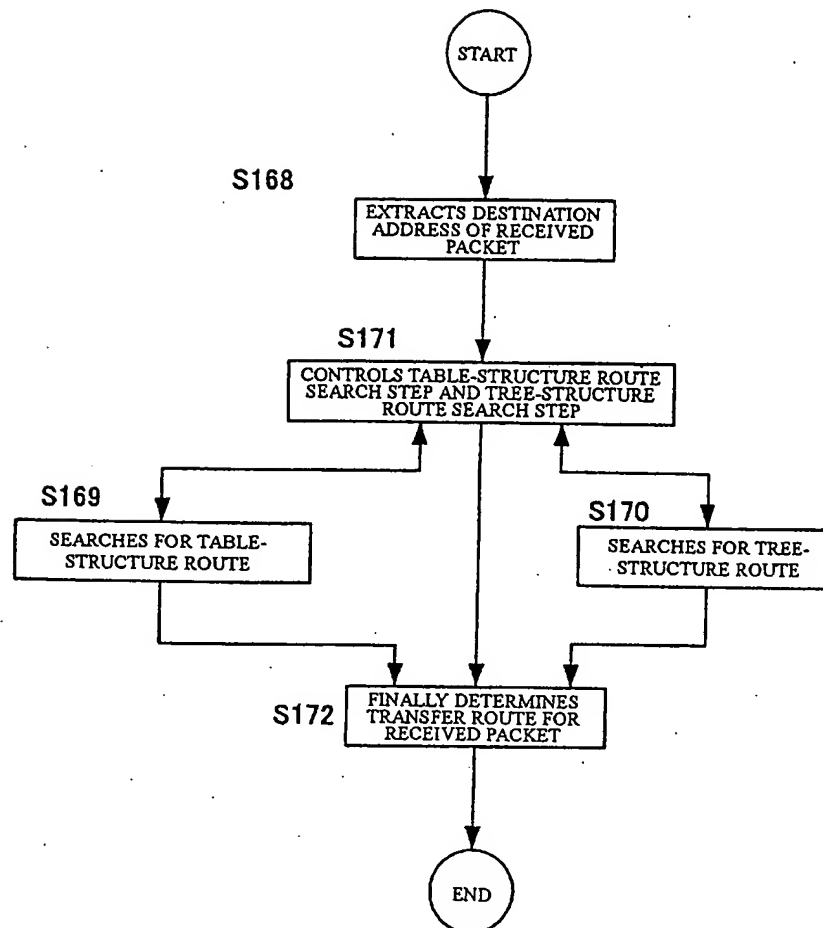
[Figure 18]

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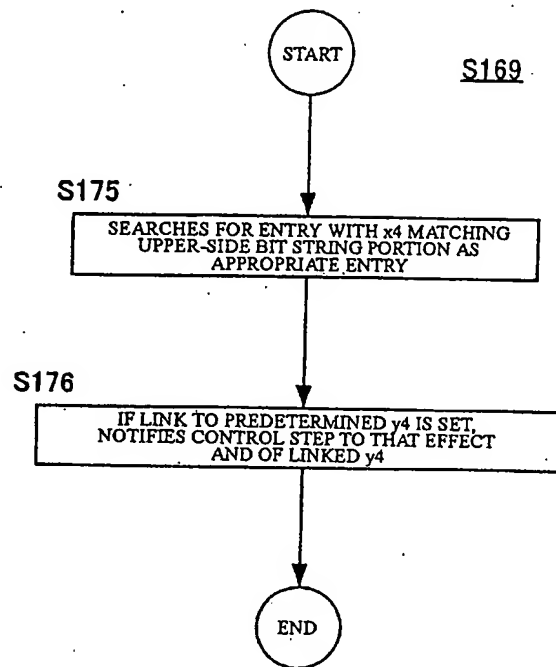
[Figure 19]

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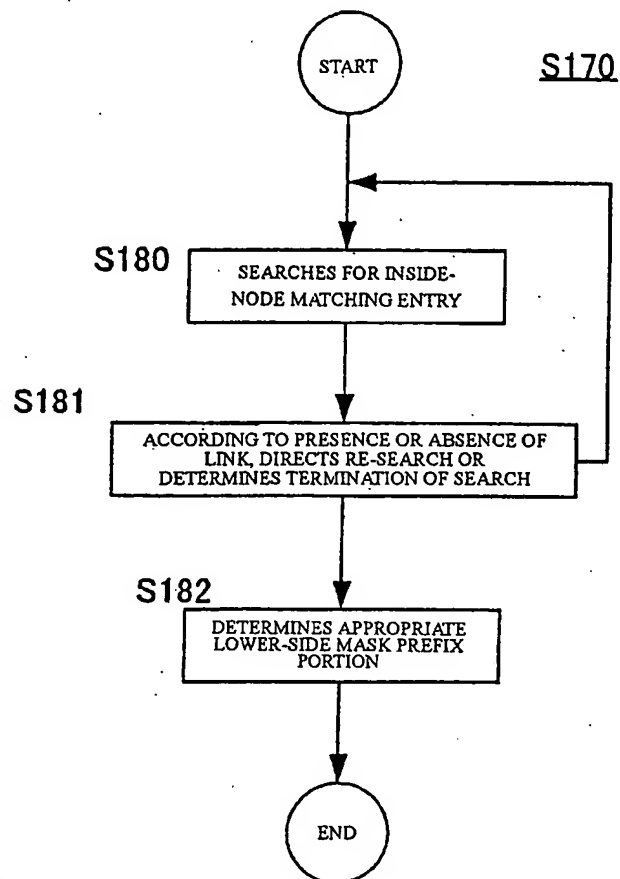
[Figure 20]

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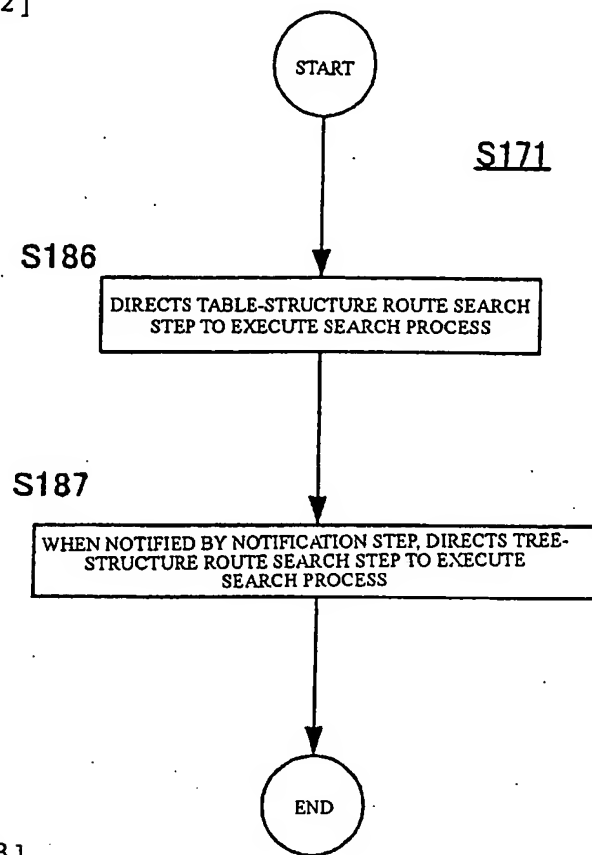
[Figure 21]

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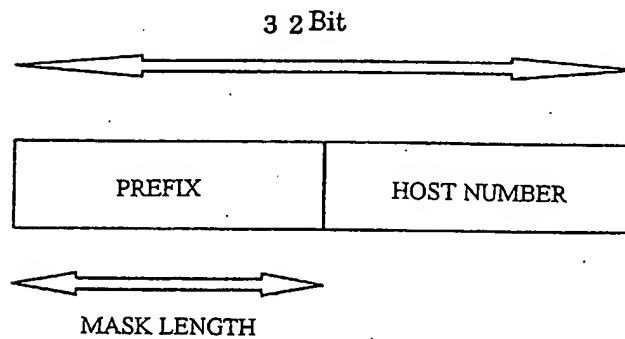


[Figure 22]

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[Figure 23]



[Figure 24]

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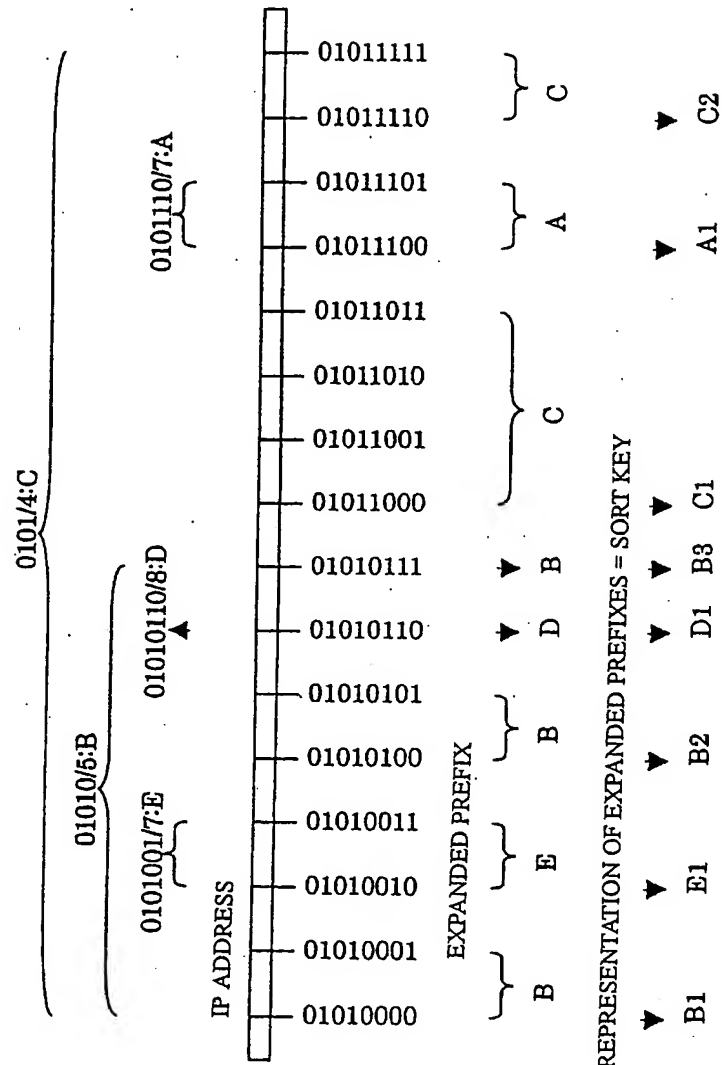
PREFIX (BINARY EXPRESSION)	MASK BIT LENGTH	CONVENIENT NAME
101110	7	A
1010	5	B
101	4	C
1010110	8	D
101001	7	E

[Figure 25]

PREFIX	MASK BIT LENGTH	SORT KEY	CONVENIENT NAME (ORIGINAL NAME + NUMBER)
1010	5	1010000	B1
101001	7	1010010	E1
1010	5	1010100	B2
1010110	8	1010110	D1
1010	5	1010111	B3
101	4	1011000	C1
101110	7	1011100	A1
101	4	1011110	C2

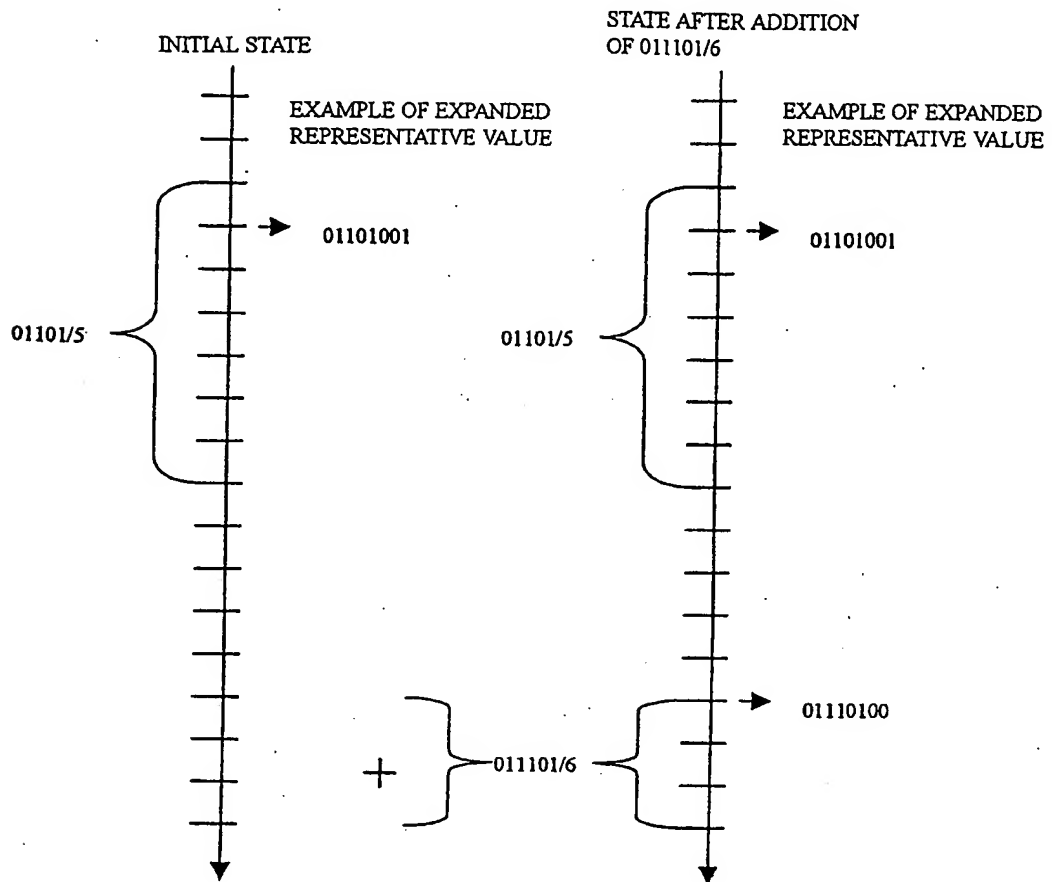
[Figure 26]

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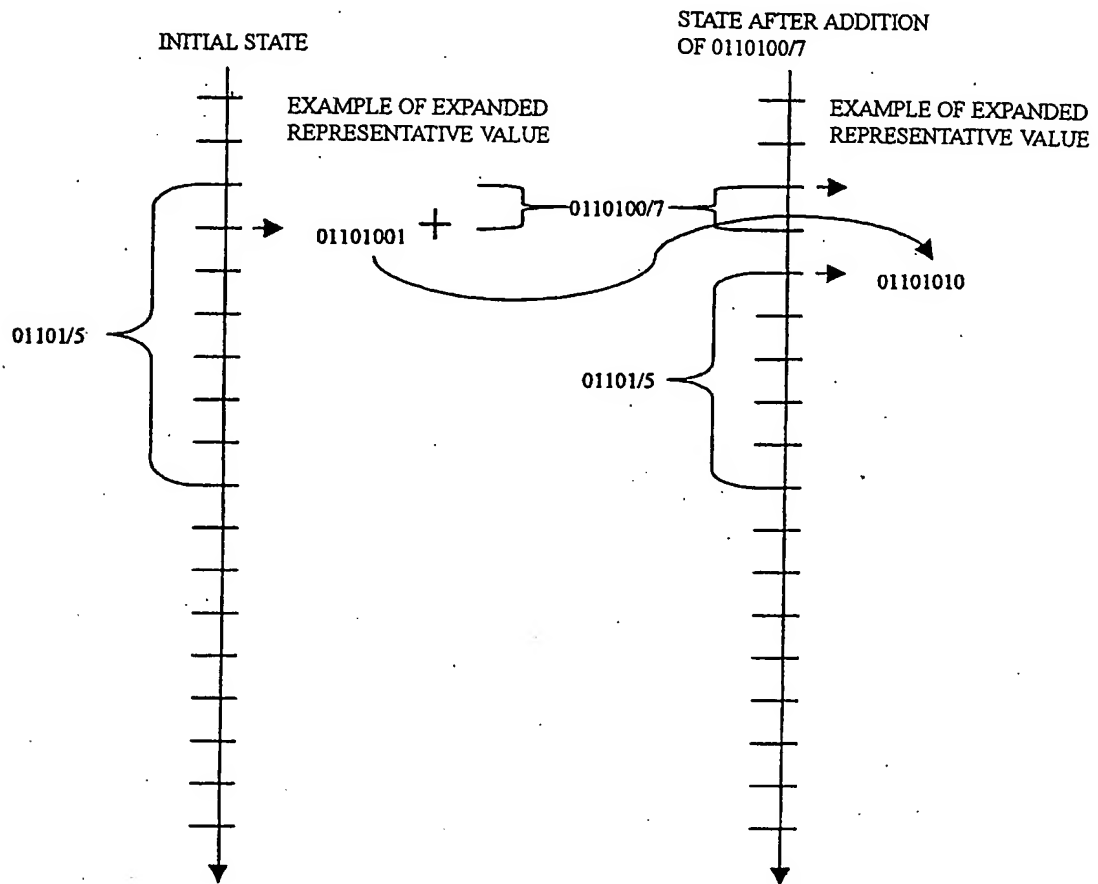
[Figure 27]

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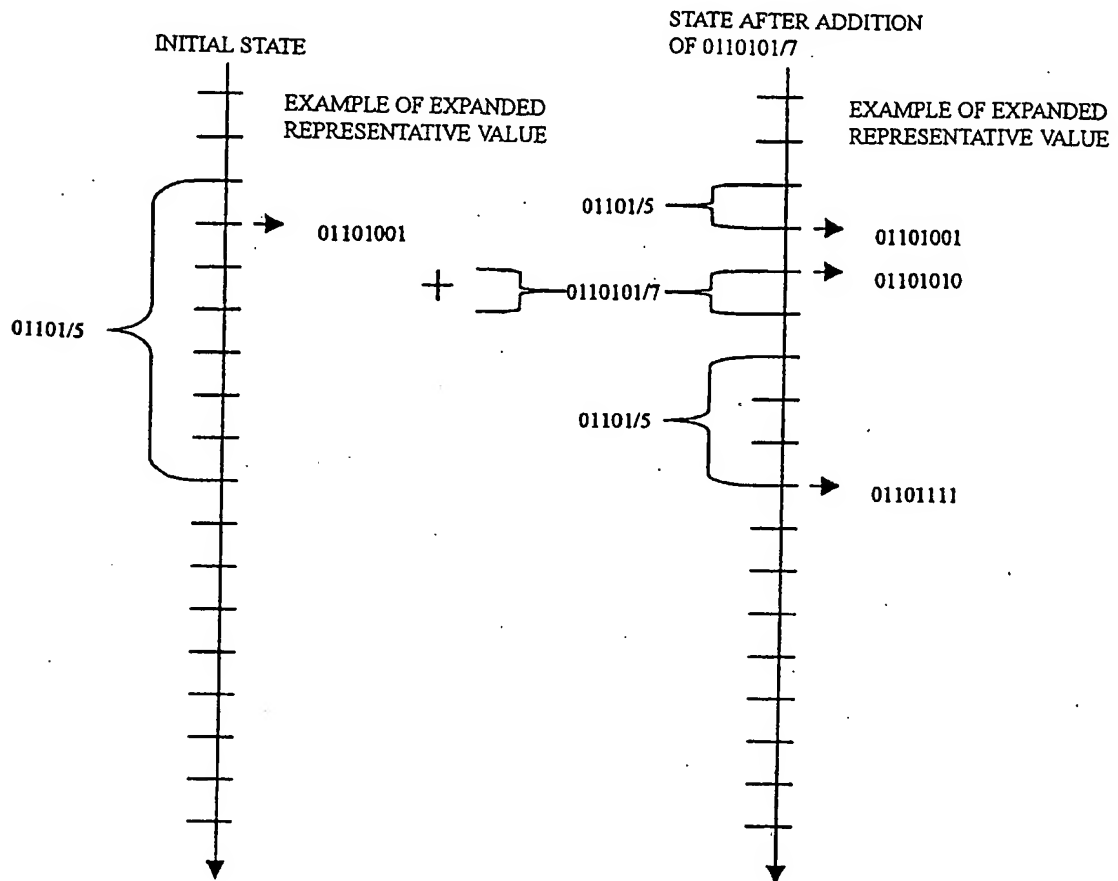
[Figure 28]

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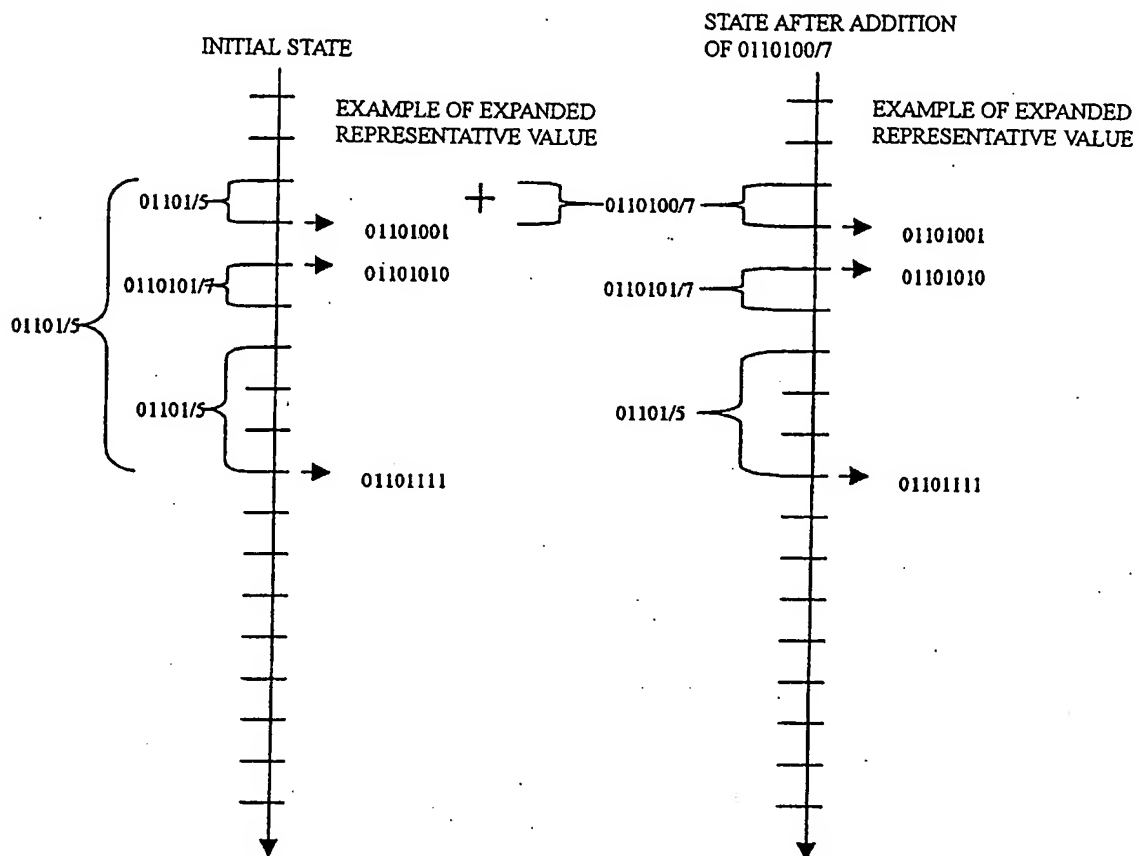
[Figure 29]

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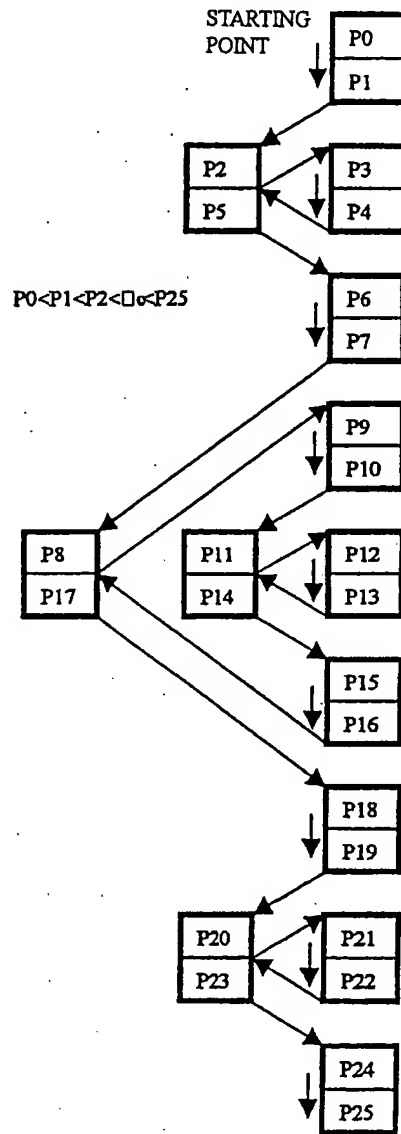
[Figure 30]

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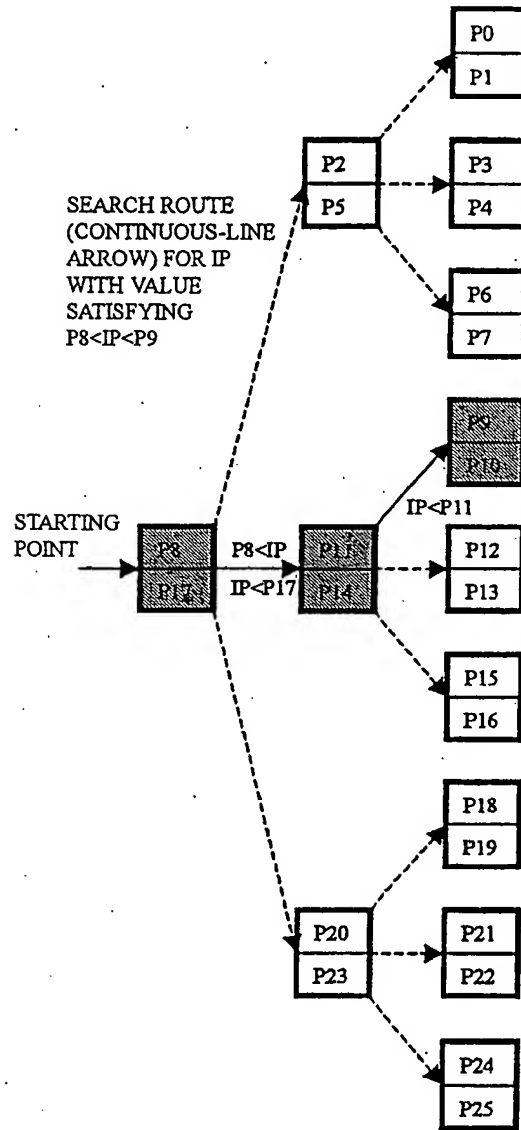
[Figure 31]

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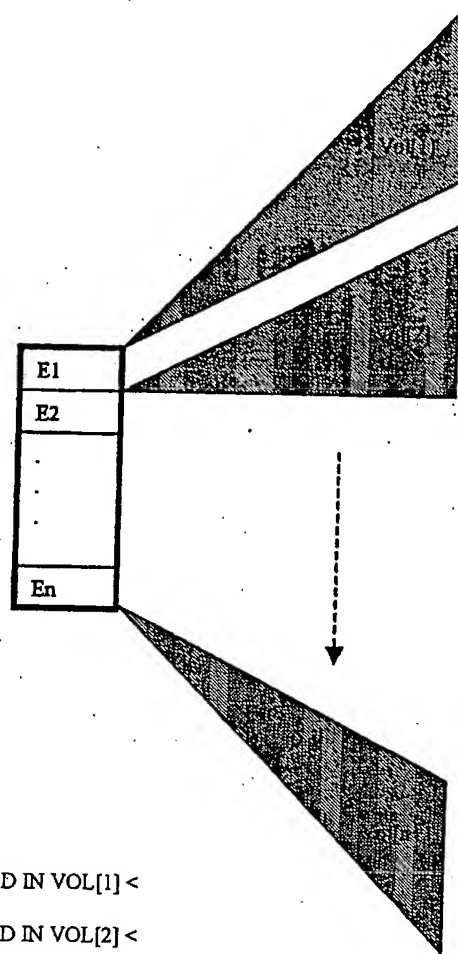
[Figure 32]

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[Figure 33]

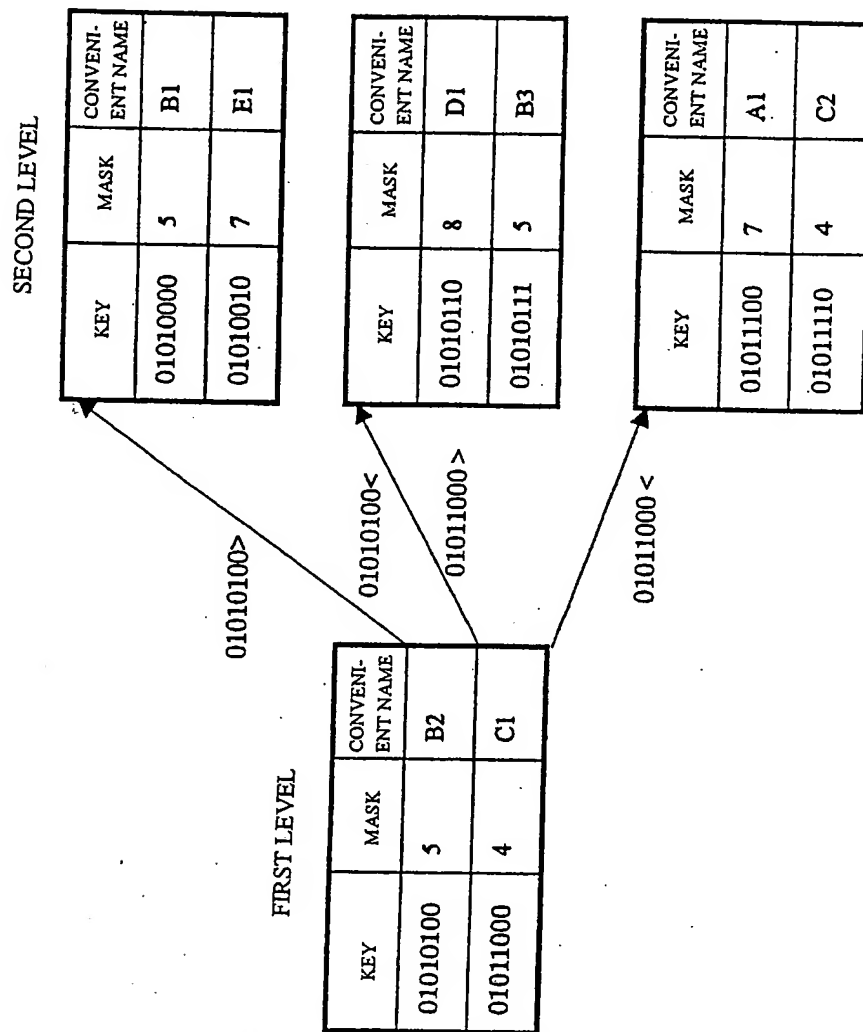
(28/42)



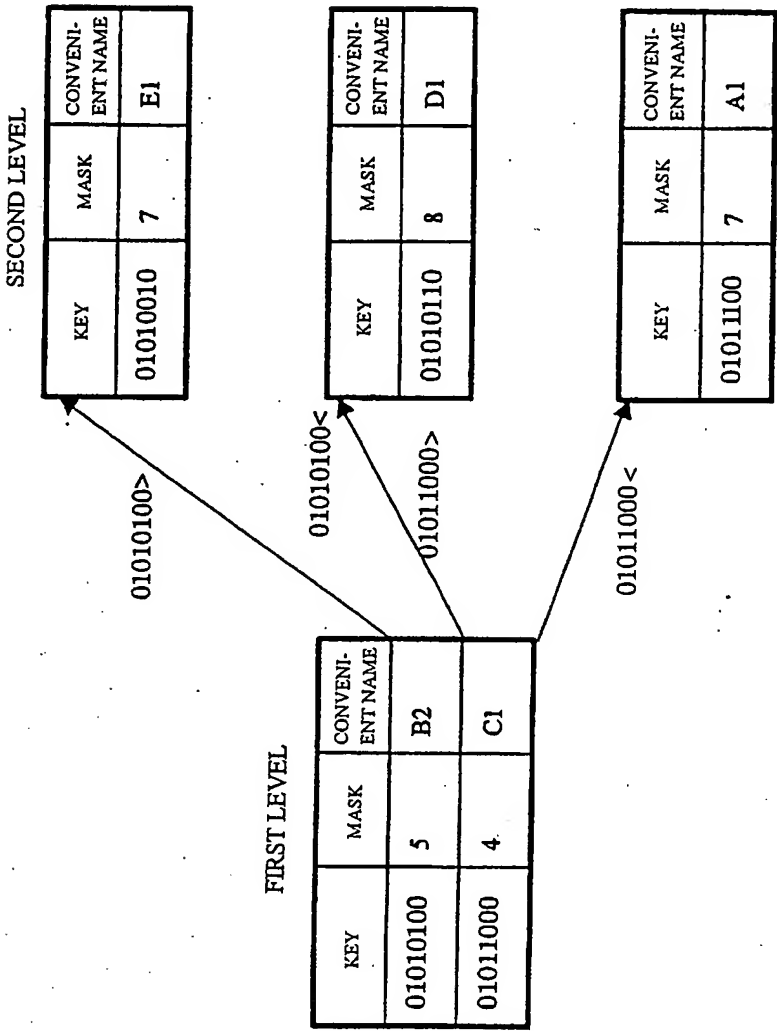
ALL ELEMENTS INCLUDED IN VOL[1] <
E1 ≤
ALL ELEMENTS INCLUDED IN VOL[2] <
E2 ≤
.....
En ≤
ALL ELEMENTS INCLUDED IN VOL[N+1]

[Figure 34]

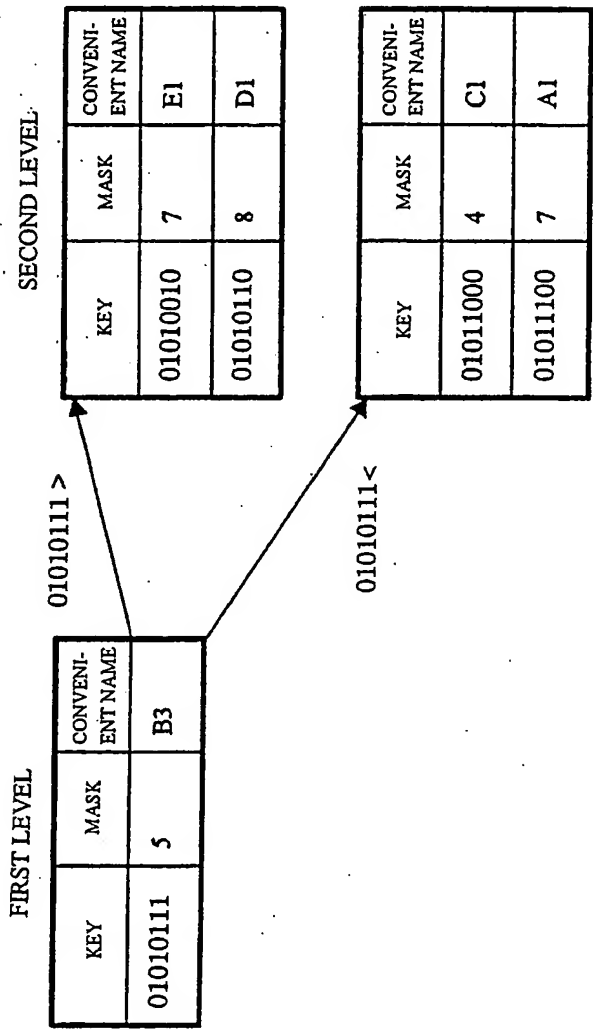
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[Figure 35]

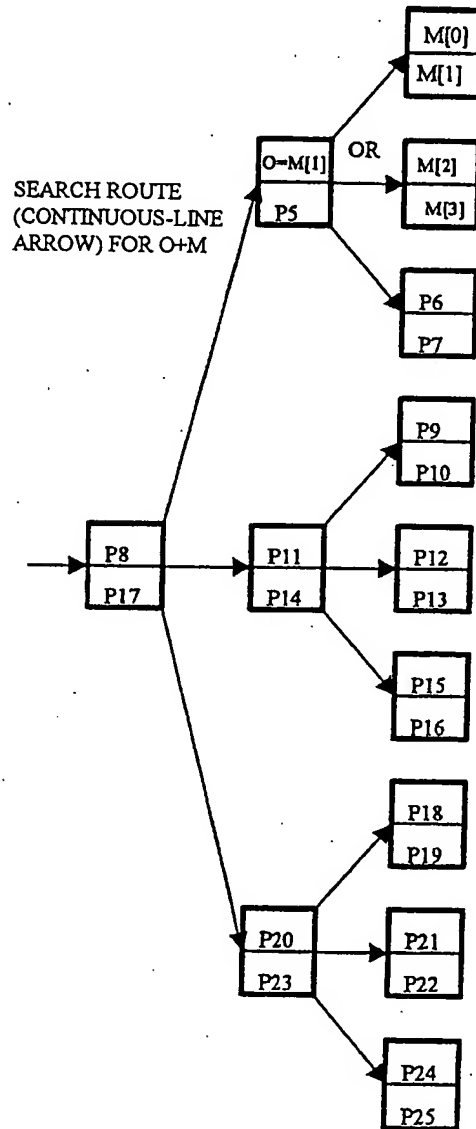


[Figure 36]



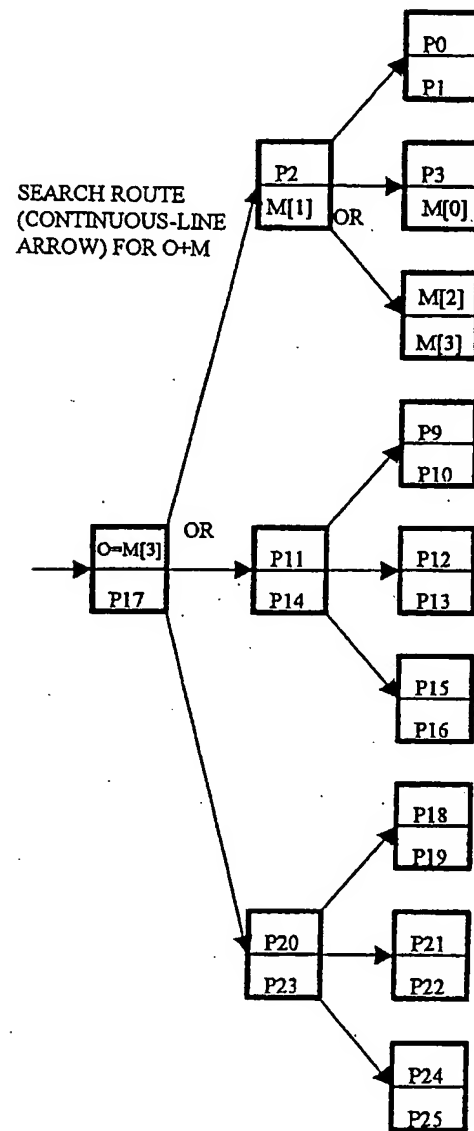
[Figure 37]

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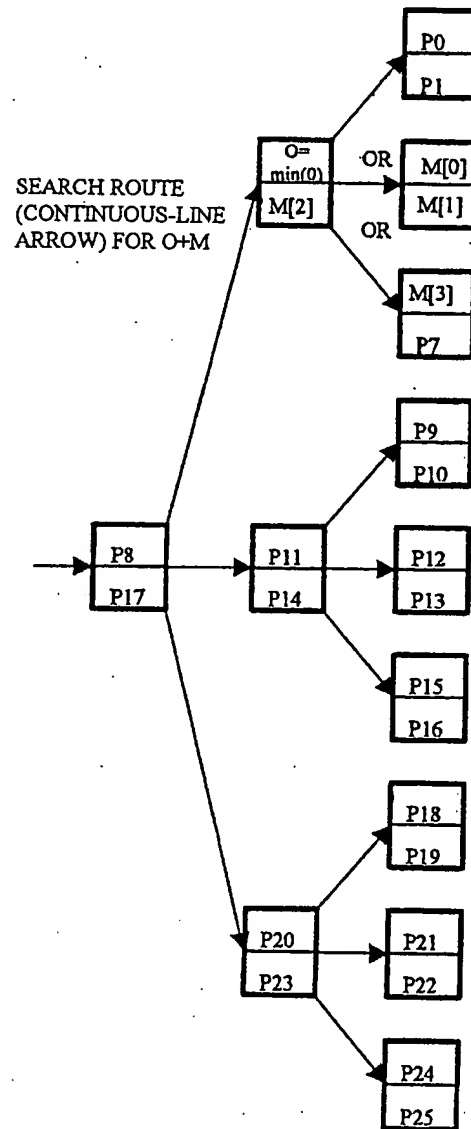
[Figure 38]

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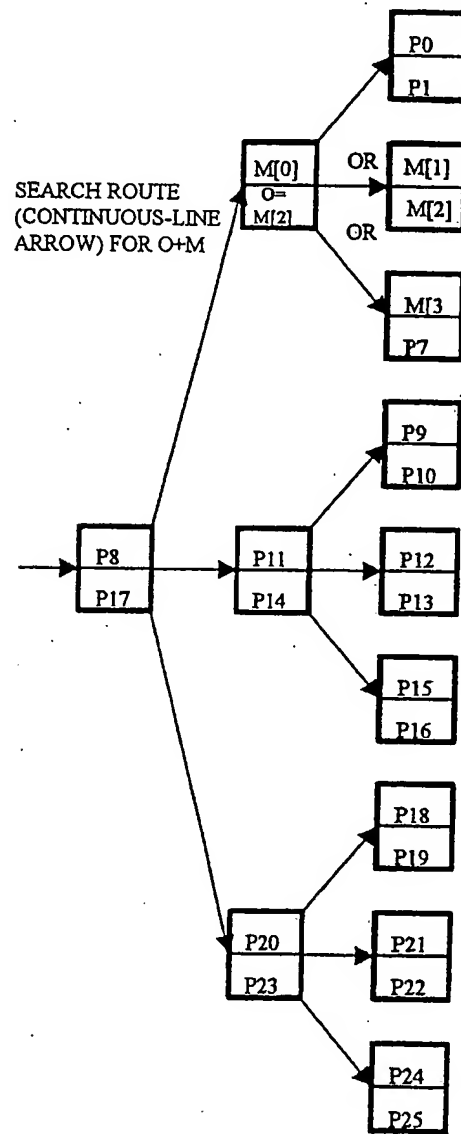
[Figure 39]

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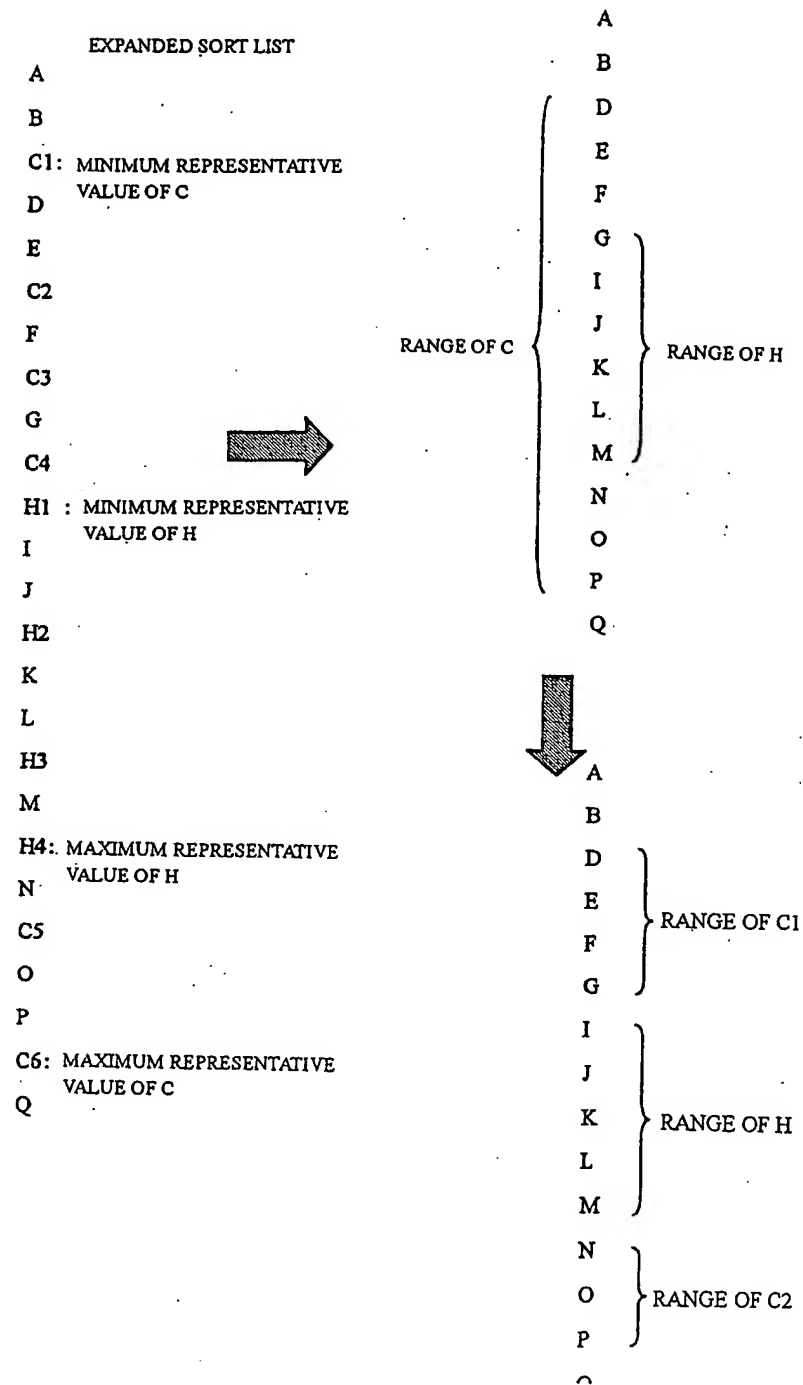
[Figure 40]

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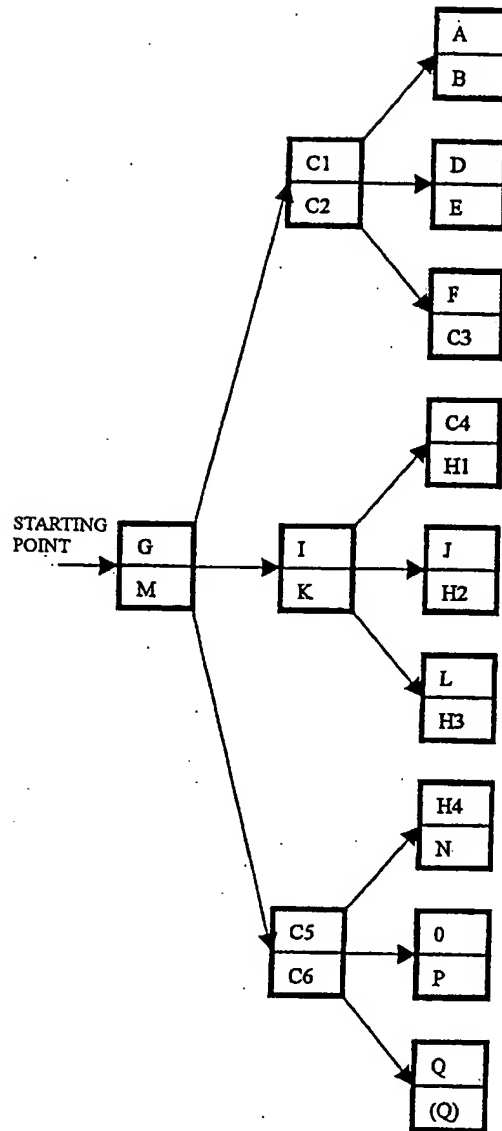
[Figure 41]

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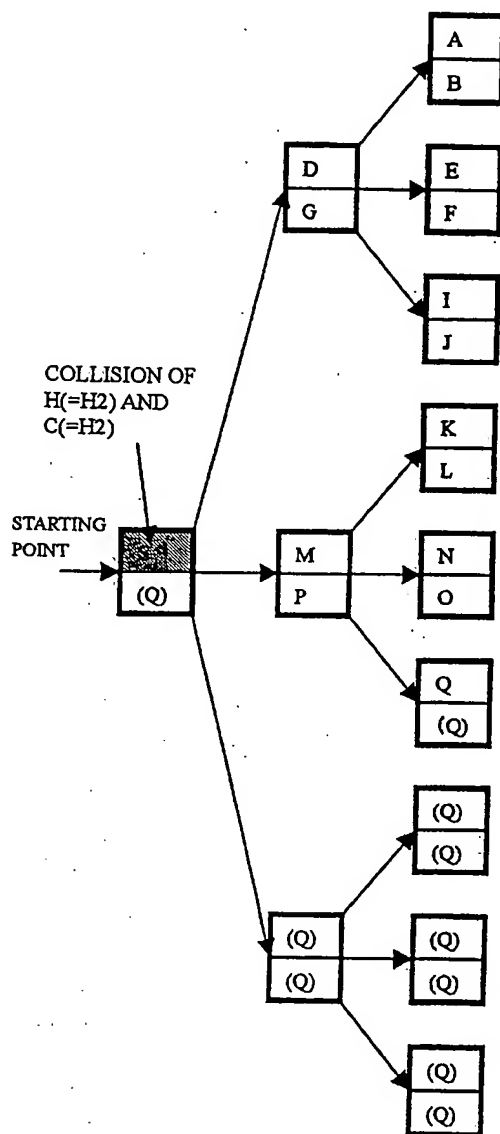
[Figure 42]

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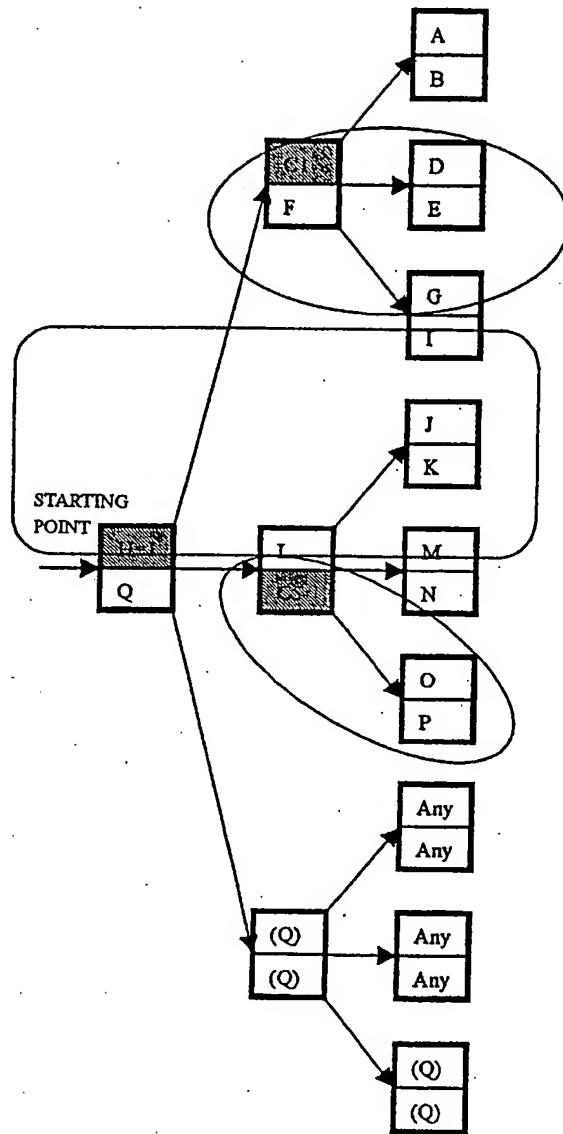
[Figure 43]

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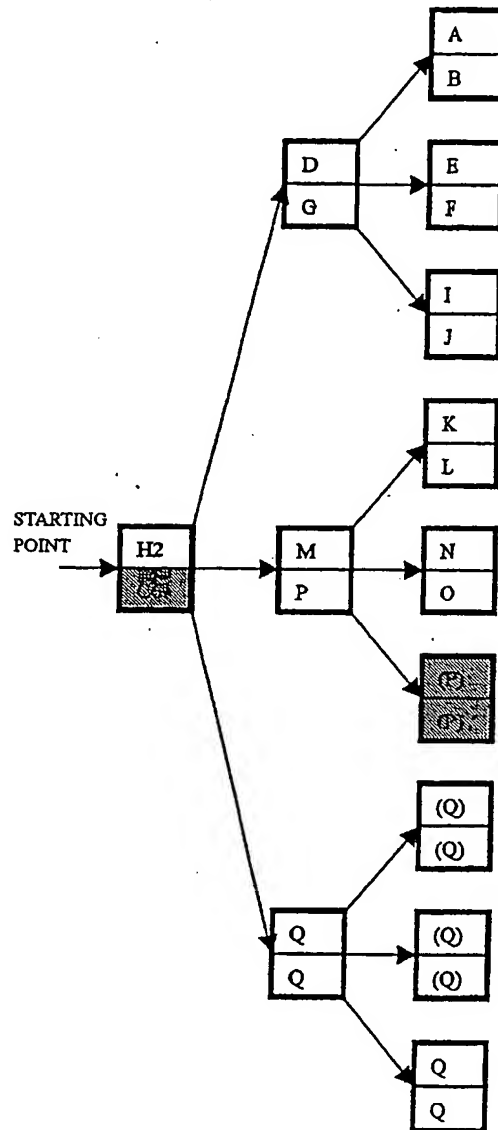
[Figure 44]

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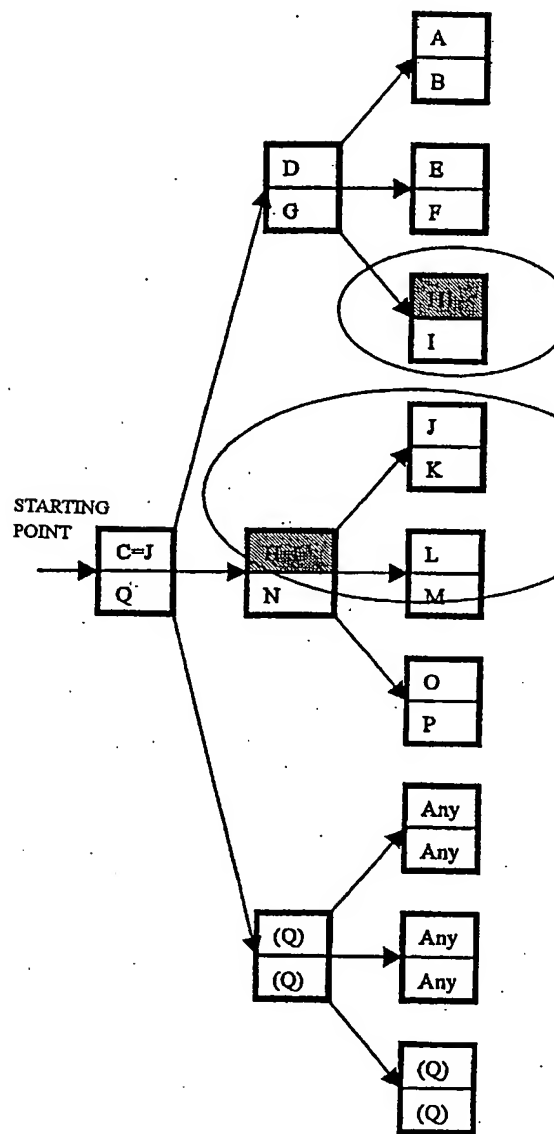
[Figure 45]

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[Figure 46]

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[Figure 47]

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